# Utah WQX Training

May 30

2012

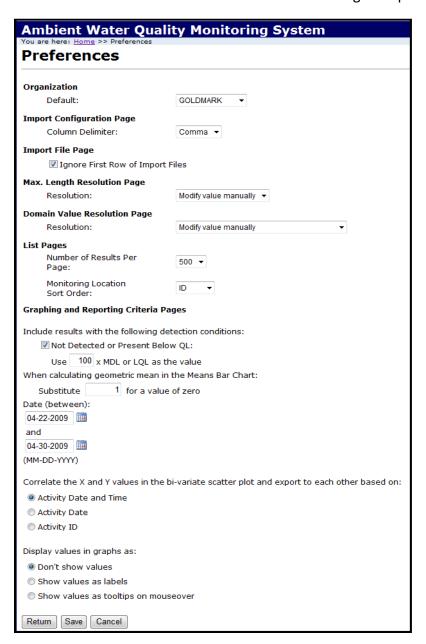
Division Training for Utah DWQ's new water quality database

DRAFT Document

## 1.0 Setting Your User Preferences

Use the User Preferences Page to customize the way you want the system to behave.

Select the "Preferences" link on the left sidebar navigation panel to open the Preferences Page.



The preferences currently available are:

**Import Configuration Page**: Column Delimiter. This sets the default value for the Column Delimiter field on a new import configuration. It can be overridden each time you create an import configuration.

**Import File Page**: Ignore First Row of Import Files. This sets the default value for this check box on the Import File Page and can be overridden each time you import a file

**Max Length Resolution Page: Resolution**. This sets the default value for this field on the Max Length Resolution Page. See the Max Length Resolution Page for more information.

**Domain Value Resolution Page: Resolution**. This sets the default value for this field on the Domain Value Resolution Page. See the Domain Value Resolution Page for more information.

When you are finished editing this page, click "Save" at the bottom of the page to save your changes. Click "Return" to go back to the Home page.

## 2.0 Changing Your User Information

The User Detail Page allows you to change your contact information (Name, Address, E-mail, etc.).

This page also shows you the organizations you have been given access to. Note that only a System Administrator can change organization rights.

Select the "User Information" link on the left sidebar navigation panel to open the User Detail Page.



When you are finished editing this page, click "Save" at the bottom of the page to save your changes. Click "Return" to go back to the Home page.

### 3.0 Managing Existing Monitoring Locations

In the database, a pair of companion pages exists for each of the main types of data in AWQMS

A List page for searching and identifying data of interest

- Criteria at the top of each page enables the user to filter the list of data.
- An "Add New" button allows you to create new records within the selected type of data.

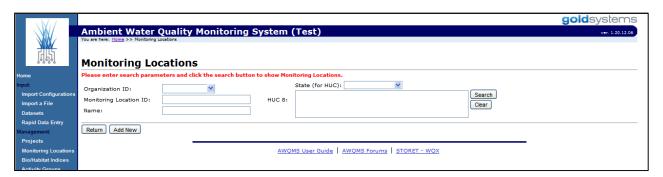
A Detail page for viewing and editing the specific record selected on the List page.

• Required fields are indicated by an asterisk to the right of the label.

#### 3.1 Monitoring Location List page

This page is used to view a list of Monitoring Locations that have been entered or imported into the system and will allow you to navigate or "drill down" to the details for a specific existing Monitoring Location record or to navigate to a blank form for entering a new record for a Monitoring Location that has not yet been captured in the system.

Select the "Monitoring Locations" link under the "Management" header on the left sidebar navigation panel to open the Monitoring Location List page.



You will be able to filter the list, searching for Monitoring Locations, using the Organization ID, Monitoring Location ID, Name fields, and/or a HUC 8 selection box at the top of the screen and subsequently selecting the "Search" button on the far right-hand side of the filter fields. No field is required; you may search for everything by clearing all filters and selecting "Search". Otherwise, you may fill in as many fields as you need.

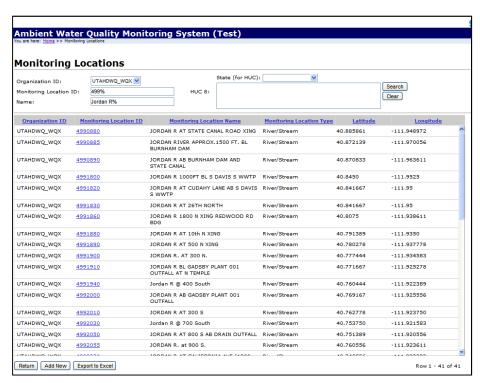
The standard Organization ID used by Utah to store all the existing Monitoring Locations and results is "UTAHDWQ\_WQX". You may select this first from the Organization ID drop down list if you have rights to more than one Organization. Otherwise, you only have access to the "master" organization, UTAHDWQ\_WQX and you do not necessarily need to select this from the list to search for Monitoring Locations.

To filter by HUC 8, first select "Utah" from the State (for HUC) drop down list. The HUC 8 Box below the drop down list will then populate with all the HUC 8 numbers and names that exist for Utah. Scroll down the list and select the HUC 8 and click "Search" to pull up all Monitoring

Locations assigned to that HUC 8. Hold the "Control" key down on your keyboard to select more than one HUC 8.



Entering the % sign in any search field indicates a "Wild card" search. For example, "499%" in the Monitoring Location ID field will search for a Location ID that begins in 499. Or, "%499%" will filter based on any Location ID that has 499 somewhere in the ID. Finally, "%499" will query for any Location ID that ends with 499. It may be used in the same way with the Name field.



QC Monitoring Locations that were entered into BlueFish without latitude and longitude information are currently stored under and "Unknown" category. If you wish to view this placeholder, search "Unknown" in the Monitoring Location ID field.

Selecting a hyperlink in the Monitoring Location ID column will take you to the Monitoring Location Details Page for the specific Monitoring Location selected. From this page, click "Return" button at the bottom of the page to return to the Monitoring Location List page with you query and result list still displayed. *Refer to Section 3.2 to learn more about the Monitoring Location Detail page*.

Selecting a hyperlinked column header will sort the returned Monitoring Location results by that column first from small to large (or A to Z). If you click the same column header twice, the result list will sort by that column from large to small (or Z to A).

You may use the navigation buttons on the bottom right-hand side of the result list to display additional results, or navigate between result pages. These buttons will turn on or off based on what type of navigation is allowed. For example, on the first page of results you will not be allowed to select the "Prev", or Previous Page, button as there is no previous page.

The Row count next to the navigation buttons provides a count of the total number of results returned based on your query.

The "Export to Excel" button at the bottom of the page enables you to download all of the results based on your query. Select "Export to Excel" and a File Download window will pop up. Select "Save" in this pop up window. The default Monitoring Location List page export name is "MonLocExport.csv". A Save As window will open prompting you to navigate to where you want to save the file, and allowing you to edit the file name. Select "Save" once you are ready. A Download complete window will open prompting you to open the file or finish the export process. Click "Open" to open the file with Excel. The Export file will include the following information:

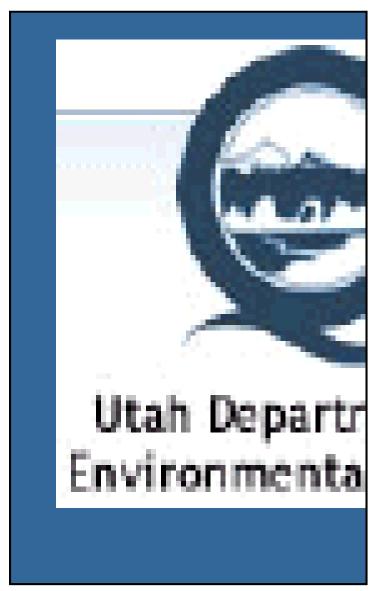
- Organization ID
- Monitoring Location UID
- Monitoring Location ID
- Name
- Description
- Monitoring Location Type
- County
- State
- Country
- HUC 8
- HUC 12
- Date Established
- Tribal Land?
- Tribal Land Name

- Township/Range/Section
- Latitude
- Longitude
- Horizontal Accuracy
- Horizontal Accuracy UoM
- Horizontal Reference Datum
- Horizonatl Collection Method
- Source Map Scale
- Vertical Measure
- Vertical Measure UoM
- Vertical Reference Datum
- Vertical Collection Method
- Comments (ie. Ben. Uses)

You must select "Clear" to reset all the filter fields to blank when you wish to start a new query.

#### **3.2 Monitoring Location Detail Page**

This page is used to view and/or edit a specific Monitoring Location, add/delete Attached Binary Objects to/from a specific Monitoring Location, capture information about a new Monitoring location, or delete an existing Monitoring Location.



All of the fields related to Monitoring Locations are represented on the Monitoring Location Detail page. Required field are indicated by an Asterisk (\*).

The values in the State drop-down list will be based on the selected country.

The values in the County drop-down list will be based on the selected state.

The application computes and displays the degrees, minutes, and seconds (DMS) of latitude longitude from the decimal degrees and vice-versa. So you only need to populate one format or the other.

The Map Latitude/Longitude link allows you to view a topographical satellite map of the longitude/latitude coordinates for the selected Monitoring Location.



The page has a sub-section for maintaining a list of alternate identifiers for the monitoring location. Utah does not have alternate identifiers in the database at this time.



"Attached Objects" allows you to view a stored attachment. Attachments could include photos of the sampling location or a PDF containing contact and access information.

Click "Return" at the bottom of the page to navigate back to the Monitoring Location List page. If you chose to click the "Monitoring Locations" link on the left sidebar navigation panel from the Monitoring Location Detail page, you will be navigated back to the Monitoring Location List page as well.

## 4.0 Analyzing Data Online

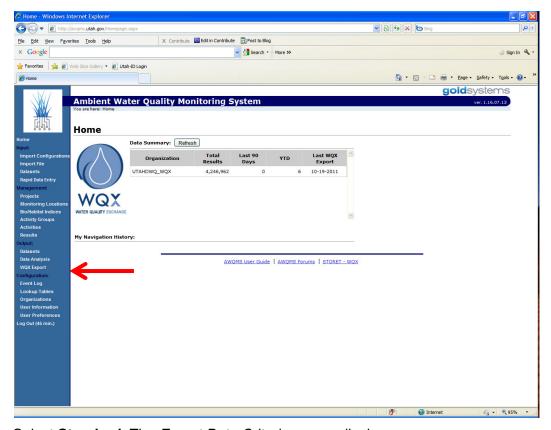
The database has several basic data analysis, summary and graphing tools.

## 5.0 Analyzing Data by Exporting Data for External Analysis

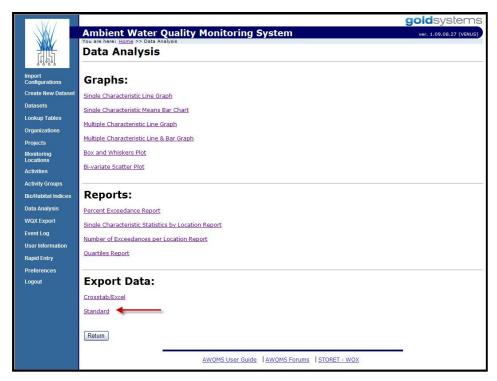
You do not need to view a report or graph in order to export data for a given set of search criteria. You can export data as an Excel readable file using the following steps:

#### **5.1 Data Analysis**

Select Data Analysis in the navigation menu. The Data Analysis screen displays.

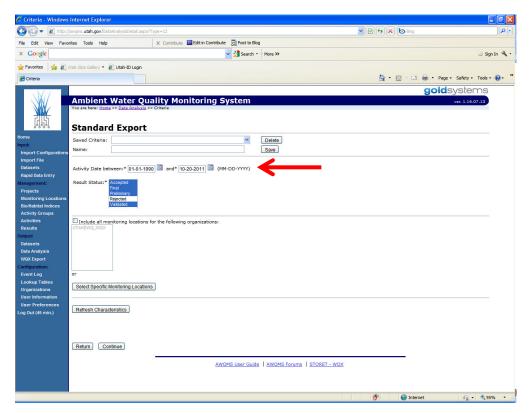


Select **Standard**. The *Export Data Criteria* screen displays.



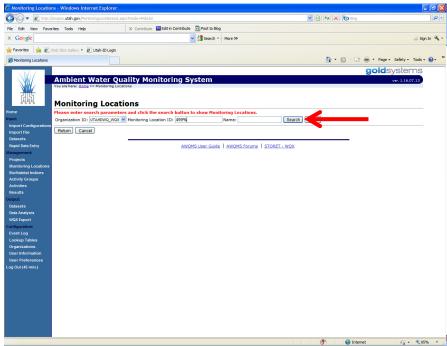
Enter search criteria and specify graph options.

a) Select a date range. (MM-DD-YYYY)



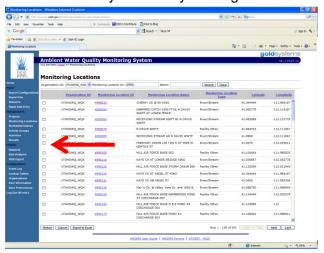
- b) Select the Result Status for which you want the data to be reported.
- c) Select the Monitoring Locations you wish to query.

- a. Selecting the Check Box and clicking on UTAHDWQ\_WQX will select ALL locations in the database.
- b. Or, click on "Select Specific Monitoring Locations" to select a subset of sites.

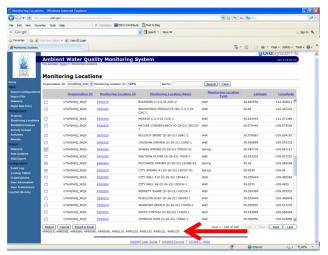


**Notes:** Monitoring Location ID refers to the STORET Number. Entering a % before or after partial names or ID numbers serves as a wild card.

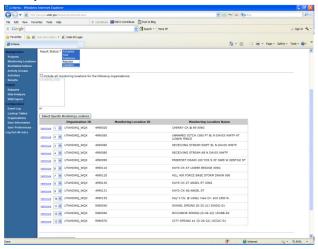
- i. Enter a search criteria for the "UTAHDWQ\_WQX" Organization
- ii. Click "Search"
- iii. Select the sites you want by clicking the checked box.



iv. You can now search by different criteria and the system will store the sites you have already selected below the "Return, Cancel and Export to Excel" buttons.



v. When you are done, click "Return"



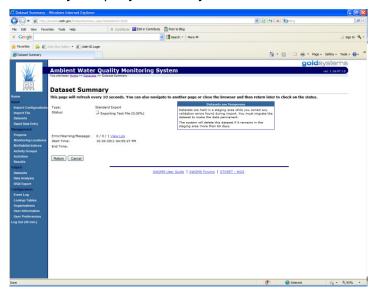
- d) Click "Refresh Characteristics
  - The characteristics list will be filtered to only show the characteristics for which there are actually results for the selected locations in the given date range and that will have one of the selected statuses.
  - Each characteristic, fraction, and unit of measure combination for which there is actual data is displayed as a unique item in the list.
- e) Select at least one characteristic, fraction, and unit of measure combination. Note that you can select more than one combination.
- f) Select one or more activity types.



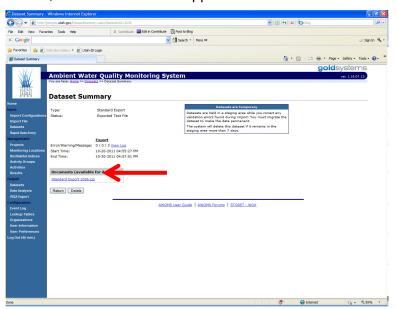
- g) If you would like results with a detection condition of either "Non-Detect" or "Present Below Quantification Limit" to be included in the graph, this is set in User Preferences.
  - If a result is a non-detect the system will report a Result Value of a Method Detection Limit multiplied by the supplied factor if specified in User Preferences.
  - If a result is a a non-detect the system will report a Result Value of nothing, if specified in User Preferences.

#### Select Continue.

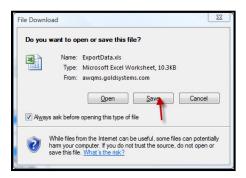
Your query will now run and an export file will be built with your results. You can run multiple queries at once – they will queue and export in the order they were received by the database. **Note:** You can navigate away from this window, or even log out while the query is processing. To get back to the query, go "Home" on the left side bar navigation, and find your query under "My datasets".



Once ready for download, a hot-linked file will appear. Click on it.



A dialog will open asking you if you wish to unzip the file and open the file directly in Excel or save it to your computer. In this example, we will unzip the file, save the file and then open it in Excel. Select **Save**.



Your computer will then allow you to decide where to save the file and what name to use. In this example, we will save it to the desktop and keep the default name.

Select the **OK** button and the save window will close.

Now navigate to the desktop

Double-click the file to open it in Excel.

The file opens in Excel.

